

IBATIS - DELETE OPERATION

http://www.tutorialspoint.com/ibatis/ibatis_delete_operation.htm

Copyright © tutorialspoint.com

This chapter would teach you how you can delete records from a table using iBATIS.

We have following EMPLOYEE table in MySQL:

```
CREATE TABLE EMPLOYEE (  
  id INT NOT NULL auto_increment,  
  first_name VARCHAR(20) default NULL,  
  last_name VARCHAR(20) default NULL,  
  salary INT default NULL,  
  PRIMARY KEY (id)  
);
```

Asume this table is having two records as follows:

```
mysql> select * from EMPLOYEE;  
+-----+-----+-----+-----+  
| id | first_name | last_name | salary |  
+-----+-----+-----+-----+  
| 1 | Zara      | Ali      | 5000 |  
| 2 | Roma      | Ali      | 3000 |  
+-----+-----+-----+-----+  
2 row in set (0.00 sec)
```

Employee POJO Class:

To perform delete operation you do need to modify Employee.java file. So let us keep it as it is in last chapter.

```
public class Employee {  
  private int id;  
  private String first_name;  
  private String last_name;  
  private int salary;  
  
  /* Define constructors for the Employee class. */  
  public Employee() {}  
  
  public Employee(String fname, String lname, int salary) {  
    this.first_name = fname;  
    this.last_name = lname;  
    this.salary = salary;  
  }  
  
  /* Here are the required method definitions */  
  public int getId() {  
    return id;  
  }  
  public void setId(int id) {  
    this.id = id;  
  }  
  public String getFirstName() {  
    return first_name;  
  }  
  public void setFirstName(String fname) {  
    this.first_name = fname;  
  }  
  public String getLastName() {  
    return last_name;  
  }  
  public void setlastName(String lname) {  
    this.last_name = lname;  
  }  
}
```

```

public int getSalary() {
    return salary;
}
public void setSalary(int salary) {
    this.salary = salary;
}

} /* End of Employee */

```

Employee.xml File:

To define SQL mapping statement using iBATIS, we would add <delete> tag in Employee.xml file and inside this tag definition we would define an "id" which will be used in IbatisDelete.java file for executing SQL DELETE query on database.

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE sqlMap
PUBLIC "-//ibatis.apache.org//DTD SQL Map 2.0//EN"
"http://ibatis.apache.org/dtd/sql-map-2.dtd">

<sqlMap namespace="Employee">
<insert >
    INSERT INTO EMPLOYEE(first_name, last_name, salary)
    values (#first_name#, #last_name#, #salary#)

    <selectKey resultClass="int" keyProperty="id">
        select last_insert_id() as id
    </selectKey>

</insert>

<select >
    SELECT * FROM EMPLOYEE
</select>

<update >
    UPDATE EMPLOYEE
    SET     first_name = #first_name#
    WHERE  id = #id#
</update>

<delete >
    DELETE FROM EMPLOYEE
    WHERE  id = #id#
</delete>

</sqlMap>

```

IbatisDelete.java File:

This file would have application level logic to delete records from the Employee table:

```

import com.ibatis.common.resources.Resources;
import com.ibatis.sqlmap.client.SqlMapClient;
import com.ibatis.sqlmap.client.SqlMapClientBuilder;
import java.io.*;
import java.sql.SQLException;
import java.util.*;

public class IbatisDelete{
    public static void main(String[] args)
        throws IOException, SQLException{
        Reader rd = Resources.getResourceAsReader("SqlMapConfig.xml");
        SqlMapClient smc = SqlMapClientBuilder.buildSqlMapClient(rd);

        /* This would delete one record in Employee table. */
        System.out.println("Going to delete record.....");
        int id = 1;
    }
}

```

```

smc.delete("Employee.delete", id );
System.out.println("Record deleted Successfully ");

System.out.println("Going to read records.....");
List <Employee> ems = (List<Employee>)
    smc.queryForList("Employee.getAll", null);
Employee em = null;
for (Employee e : ems) {
    System.out.print("  " + e.getId());
    System.out.print("  " + e.getFirstName());
    System.out.print("  " + e.getLastName());
    System.out.print("  " + e.getSalary());
    em = e;
    System.out.println("");
}

System.out.println("Records Read Successfully ");
}
}

```

Compilation and Run:

Here are the steps to compile and run the above mentioned software. Make sure you have set PATH and CLASSPATH appropriately before proceeding for the compilation and execution.

- Create Employee.xml as shown above.
- Create Employee.java as shown above and compile it.
- Create IbatisDelete.java as shown above and compile it.
- Execute IbatisDelete binary to run the program.

You would get following result, and a record with ID = 1, would be deleted in EMPLOYEE table and rest of the records would be read from the EMPLOYEE table.

```

Going to delete record.....
Record deleted Successfully
Going to read records.....
 2  Roma  Ali  3000
Records Read Successfully

```